

## **STATE OF CALIFORNIA SIERRA NEVADA CONSERVANCY - RECOMMENDATION**

### **Sierra Nevada Conservancy Grant Program Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Act of 2006 (Proposition 84)**

**Subregion:** CENTRAL **County:** PLACER

**Applicant:** PLACER COUNTY DEPARTMENT OF PUBLIC WORKS

**Project Title:** US HIGHWAY 40 SHOULDER REHABILITATION PROJECT

**Application Number:** SNC 070245

### **PROJECT SCOPE**

Placer County Department of Public Works will conduct slope stabilization and culvert upgrades on a section of Donner Pass Road at the headwaters of the South Yuba River and adjacent to Lake Van Norden. The slope stabilization will be conducted using both mechanical and biological methods.

Specifically, the Department will:

- Establish photo-points, and conduct intensive pre and post-project photo-monitoring;
- Collect field data to facilitate detailed design, including soil sample collection and analysis, topographic survey, and assessment of drainage facilities;
- Prepare design plans, revegetation plans, specifications, and engineer's estimate for construction improvements;
- Advertise project, gather bids, and award construction contract;
- Install all temporary construction BMPs at the project site and minimize ground disturbance during construction;
- Attempt to partner with the California Conservation Corps for the revegetation effort;
- Utilize volunteers to the extent available in implementing the project, particularly revegetation;
- Stabilize the slope by placing rock at the toe of the slope, ensuring the ability to revegetate;
- Conduct revegetation, preferably native plants to avoid the need for irrigation, as a means of stabilizing the bank and reducing erosion;
- Conduct work during the summer months to minimize run-off during construction;
- Conduct revegetation in a manner conducive to preserving natural aesthetic value;
- Reconstruct and repair roadside culverts in the project area, including the installation of sediment detention cans where appropriate;
- Place signage on the project site explaining project and source of funds;
- Coordinate with CABY on incorporation of the project into the IRWMP.

### **RECOMMENDATION**

Staff recommends this grant for partial funding at \$500,000.

## LETTERS OF SUPPORT

- Placer County Board of Supervisors
- Truckee-Donner Land Trust
- Donner Summit Area Association
- Sugar Bowl Ski Resort

## PROJECT SCHEDULE

<b>DETAILED PROJECT DELIVERABLES</b>	<b>TIMELINE</b>
Establish photo-points, and acquire pre-project photos	July 2008
Collect field data to facilitate detailed design, including soil sample collection and analysis, topographic survey, and assessment of drainage facilities;	August 2008- November 2008
Complete and submit six-month progress report to SNC	December 2008
Prepare design plans, and specifications	January 2009
Advertise, gather bids, and award construction contract;	February 2009 – April 2009
Produce signage and place on project site	April 2009
Complete and submit twelve-month progress report to SNC	June 2009
Finalize design plans and acquire permits	June 2009
Purchase necessary construction related materials	June 2009
Initiate and complete sediment trap installations	June 2009 – September 2009
Initiate and complete slope grading and revegetation activities	June 2009 – September 2009
Conduct thorough clean-up of project site	October 2009
Acquire post-project photos from established photo-points	November 2009
<b>Final Report/Final Request for Payment to SNC</b>	<b>December 2009</b>

## PROJECT COSTS

<b>PROJECT BUDGET CATEGORIES</b>	<b>TOTAL SNC FUNDING</b>
Mobilization/Demobilization	\$10,000
Project Signage	\$2,000
Traffic Control System	\$5,000
Water Pollution Control	\$10,000
Sediment traps and installation	\$13,500
Energy Dissipator	\$6,000
Slope Grading Equipment and Operator Costs	\$45,000
Topsoil importation and placement costs	\$82,500
Channel Lining	\$9,000
Revegetation Costs	\$97,500
Rock Slope Protection Material	\$100,550
Geotextile Filter Fabric	\$11,000
Construction Management Costs	\$40,950
Project Design and Management Costs	\$67,000
<b>GRAND TOTAL</b>	<b>\$500,000</b>

## **DONNER PASS ROAD SHOULDER EROSION CONTROL SITE IMPROVEMENT AND RESTORATION**

### **Project Summary**

A section of Donner Pass Road approximately 1 mile west of Donner Summit was built over 70 years ago in very loose erodible soils and bedrock where roadway cuts are as high as 65 feet and as long as 300 feet or more with slope angles approaching 36 degrees (73 percent). These barren roadway cut slopes have been an ongoing source of erosion and sediment runoff onto the highway as well as downgradient properties, surface waters, and other natural resources. The site is situated near Sugar Bowl Ski Resort, and the South Yuba River and Lake Van Norden are the receiving waters for the sediment-laden runoff originating from the erosion prone slopes.

The eroded slopes are located on Placer County road right-of-way and would include up to one acre of land restoration and upgrading of storm water drainage and treatment facilities to improve the water quality of the South Yuba Water Watershed.

Specifically, grant funding would be utilized to rehabilitate the roadway slopes with mechanical and/or native vegetation treatments to both improve water quality and the aesthetics of this scenic roadway. Dilapidated drainage facilities would be replaced and/or upgraded to better contain and treat slope and road storm water runoff.

Restoration efforts would be applied to design, permitting and construction of long-term, permanent slope mitigation measures. Benefits to watershed restoration would be measured by improved drainage controls and reduced sediment runoff thereby increasing the quality of roadway runoff that drains to into the South Yuba Watershed near the headwaters of the South Yuba River.

This project will significantly improve the water quality of roadway runoff in the area and beautify a section of road considered a scenic byway that runs adjacent to existing recreational facilities and natural resources enjoyed by the public.

The total project cost is estimated at \$1,020,000. We have \$20,000 available through traffic mitigation fees allocated by Placer County. Total grant being requested is \$1,000,000.